

Misc: 425-2

SPIRAL COLUMN REINFORCING STEEL

(10-19-99)

1.0 MATERIAL

Spiral column reinforcing steel shall be furnished with the following areas and weights as required on the plans:

	Size	Area (in ²)	Weight (lbs/ft)
Plain Cold Drawn Wire	W 20	0.20	0.668 min.
	W 31	0.31	1.043 min
Deformed Cold Drawn Wire	D-20	0.20	0.680
	D-31	0.31	1.054
Plain or Deformed Bar	#4	0.20 min.	0.668
	#5	0.31 min.	1.043

Plain cold drawn wire shall conform to the requirements of AASHTO M32.

Deformed cold drawn wire shall conform to the requirements of AASHTO M225.

Plain or deformed bars shall conform to the requirements of AASHTO M31 for Grade 60.

2.0 DIMENSIONS

The diameter of the spiral reinforcing steel is the outside to outside measurement of the bars or wire, with an allowance of 1/2 inch more or 1/2 inch less than the specified diameter as shown on the plans.

3.0 FINISHING

When required by the plans, spiral column reinforcing steel shall be epoxy coated in accordance with Article 1070-8 of the Standard Specifications.

Spirals shall be furnished with 1½ extra turns at top and bottom of the completed spiral cage. Where splicing of the spirals is necessary in locations other than those shown on the plans, a minimum lap splice of 3 feet shall be provided.

Welding will not be permitted on the spiral reinforcing.

4.0 SPIRAL SPACERS

The minimum number of spiral spacers shall be used as shown on the plans. The minimum section modulus per spiral spacer shall be 0.030 in³.

Plastic or epoxy coated spiral spacers shall be used with epoxy coated spiral column reinforcing steel.

5.0 METHOD OF MEASUREMENT

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The quantity of spiral reinforcing steel to be paid for will be the number of pounds of spiral column reinforcing as shown on the plans as being necessary to complete the work. ~~Where the plans have been revised, the quantity to be paid for will be the quantity shown on the revised plans. Where the Engineer directs the Contractor to deviate from the plans in such a manner to change the quantities of spiral column reinforcing necessary to complete the project, the quantity shown on the plans will be increased or decreased by the theoretical computed weight of spiral column reinforcing added or subtracted by the change.~~

6.0 BASIS OF PAYMENT

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The quantity of spiral reinforcing steel determined as provided in Method of Measurement will be paid for at the contract unit price per pound for "Spiral Column Reinforcing Steel" or "Epoxy Coated Spiral Column Reinforcing Steel". ~~The quantity of spiral column reinforcing steel shown on the plans is an estimate based on the theoretical computed weight of the spiral reinforcing steel necessary to complete the work and will be used for pay purposes. No revision in this pay quantity nor any adjustment in the contract unit price for "Spiral Column Reinforcing Steel" or "Epoxy Coated Spiral Column Reinforcing Steel" will be made except where revisions in the plans affect the quantity of reinforcing necessary to complete the work or where an error has been found in the estimate of spiral column reinforcing steel shown on the plans.~~

~~In the event that the elevation of the top of a footing is raised by a distance not exceeding 3 feet, and the spiral column reinforcing has been fabricated before the elevation was raised, no decrease in the quantity of spiral column reinforcing to be paid for will be made from the theoretical weight of the spiral column reinforcing shown on the plans for the original substructure unit. Under the above circumstances the provision of Article 109-6 of the Standard Specifications will not apply as the spiral column reinforcing not used in the work shall remain the property of the Contractor and payment for such reinforcing will be made as provided above. No separate payment will be made for the cost of cutting off the spiral reinforcing as payment at the contract unit price per pound for the item of "Spiral Column Reinforcing Steel" or "Epoxy Coated Spiral Column Reinforcing Steel" will be full compensation for cutting the spiral reinforcing.~~

~~The above prices and payment will be full compensation for furnishing and placing the spiral reinforcing steel and all related materials such as tie wire, spacers and any other material for fastening the spiral reinforcing steel in place.~~

Payment will be made under:

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Spiral Column Reinforcing Steel Pound
Epoxy Coated Spiral Column Reinforcing Steel Pound